RAW SEQUENCE LISTING

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Application Serial Number:	10/561, 743
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PATENT APPLICATION: US/10/561,743 TIME: 12:19:35

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Output Set: N:\CRF4\04202006\J561743.raw

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     5 <120> TITLE OF INVENTION: METHOD OF PRODUCING RECOMBINANT DNA MOLECULES
     7 <130> FILE REFERENCE: 02901/0203760-US0
     9 <140> CURRENT APPLICATION NUMBER: 10/561,743
     10 <141> CURRENT FILING DATE: 2005-12-20
     12 <150> PRIOR APPLICATION NUMBER: PCT/EP2004/006600
     13 <151> PRIOR FILING DATE: 2004-06-18
     15 <150> PRIOR APPLICATION NUMBER: 60/480,581
     16 <151> PRIOR FILING DATE: 2003-06-20
     18 <150% PRIOR APPLICATION NUMBER: 60/493,586
     19 <151> PRIOR FILING DATE: 2003-08-07
     21 <160> NUMBER OF SEQ ID NOS: 31
     23 <170> SOFTWARE: PatentIn version 3.1
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     27 <211> LENGTH: 1909
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     40 attqcaataq aqaaagaaga atqtcgtttc tgcataagca tcaacaccac ttggtgtgct
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     42 ggctactgct acaccaggga tctggtgtat aaggacccag ccaggcccaa aatccagaaa
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     44 acatgtacct tcaaggaact ggtatatgaa acagtgagag tgcccggctg tgctcaccat
     46 gcagattcct tgtatacata cccagtggcc acccagtgtc actgtggcaa gtgtgacagc
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     62 agtgaaagaa ctaactgcag cagtcttctg gtagactctt gggccctcta gagcaaggtc
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     66 aatggcttct ttagatcaga aaggtcaagg gtagaaaata ctggaagagg atgtttgagg
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     68 taagctgatg aggctgccg cagcacacca gtcccatgaa agttagtggc atcagtttca
     70 cctcqccttt tctccaqcac atgagtattg agacatgatg tgtctttctg aattgtttgg
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     72 tacagatggg gagtaacaga gctcgaagat ttccaagcta ttactaccaa gcctgttagt
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     74 taagggcaaa ggcaagaaat tgtaatttgg ggctgtggaa attagcctgc ctctattcat
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80 qatttqaaaq taggtttgaa agcagtttca gcaatttaat aaatataatt aatttgtcta
                                                                        1380
82 ccaaatatat ttgtataaat aatagctcct ttagaaagaa ttagccatgg ggggatcgag
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84 gggaaactgc tgttttctag gatcctgtct acatcaatct tctattttat ccatccatgt
                                                                        1500
86 tctcccaaat ctgtgctttc tttcaacagg ttatatatta aaactatttc atgagttgat
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88 ttcttttaaa cgtgttaact gtcttagtta tgcactcagt ttcacactca tattgtttaa
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90 ctaatttatt taaagtctta tttttttaat aaagatgcta gccaccagag tcacggcttg
                                                                        1680
92 gattgtttta tgtacaaaca gatgacttag aaattctgta ttttataata atattagtgg
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94 aatgaaatct taaaatataa ttcccagtgt ttctataaat attacctttc cttatctttg
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96 gagatattaa aaataatttt gttggatttc tgaagtgttt tgtcacttaa atttcctgtc
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108 <222> LOCATION: (1)..(5)
109 <223> OTHER INFORMATION: B-FSH signal sequence
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122 <222> LOCATION: (1)..(159)
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127 Met Lys Thr Leu Gln Phe Phe Phe Leu Phe Cys Cys Trp Lys Ala Ile
128 1
                                                                            96
130 tgc tgc aat agc tgt gag ctg acc aac atc acc att gca ata gag aaa
131 Cys Cys Asn Ser Cys Glu Leu Thr Asn Ile Thr Ile Ala Ile Glu Lys
                20
                                    25
134 gaa gaa tgt cgt ttc tgc ata agc atc aac acc act tgg tgt gct ggc
                                                                           144
135 Glu Glu Cys Arg Phe Cys Ile Ser Ile Asn Thr Trp Cys Ala Gly
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                                                                           159
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139 Tyr Cys Tyr Thr Arg
140
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144 <211> LENGTH: 231
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146 <213> ORGANISM: Homo sapiens
148 <220> FEATURE:
149 <221> NAME/KEY: exon
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48

96

144

192

231

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155 Asp Leu Val Tyr Lys Asp Pro Ala Arg Pro Lys Ile Gln Lys Thr Cys
                                         10
                    5
158 acc ttc aag gaa ctg gta tat gaa aca gtg aga gtg ccc ggc tgt gct
159 Thr Phe Lys Glu Leu Val Tyr Glu Thr Val Arg Val Pro Gly Cys Ala
                 20
160
162 cac cat gca gat tcc ttg tat aca tac cca gtg gcc acc cag tgt cac
163 His His Ala Asp Ser Leu Tyr Thr Tyr Pro Val Ala Thr Gln Cys His
             35
166 tgt ggc aag tgt gac agc gac agc act gat tgt act gtg cga ggc ctg
 167 Cys Gly Lys Cys Asp Ser Asp Ser Thr Asp Cys Thr Val Arg Gly Leu
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 170 ggg ccc agc tac tgc tcc ttt ggt gaa atg aaa gaa taa
 171 Gly Pro Ser Tyr Cys Ser Phe Gly Glu Met Lys Glu
                         70
 172 65
 175 <210> SEQ ID NO: 5
..176 <211> LENGTH: 129
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 177 <212> TYPE: PRT
 178 <213> ORGANISM: Homo sapiens
 180 <400> SEQUENCE: 5
 181 Met Lys Thr Leu Gln Phe Phe Phe Leu Phe Cys Cys Trp Lys Ala Ile
 182 1
 184 Cys Cys Asn Ser Cys Glu Leu Thr Asn Ile Thr Ile Ala Ile Glu Lys
                 20
 187 Glu Glu Cys Arg Phe Cys Ile Ser Ile Asn Thr Thr Trp Cys Ala Gly
                                 40
 190 Tyr Cys Tyr Thr Arg Asp Leu Val Tyr Lys Asp Pro Ala Arg Pro Lys
                             55
 193 Ile Gln Lys Thr Cys Thr Phe Lys Glu Leu Val Tyr Glu Thr Val Arg
                         70
 196 Val Pro Gly Cys Ala His His Ala Asp Ser Leu Tyr Thr Tyr Pro Val
                     85
 199 Ala Thr Gln Cys His Cys Gly Lys Cys Asp Ser Asp Ser Thr Asp Cys
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 202 Thr Val Arg Gly Leu Gly Pro Ser Tyr Cys Ser Phe Gly Glu Met Lys
             115
 203
 205 Glu
 209 <210> SEQ ID NO: 6
 210 <211> LENGTH: 390
 211 <212> TYPE: DNA
 212 <213> ORGANISM: Artificial Sequence
 214 <220> FEATURE:
 215 <223> OTHER INFORMATION: B-FSH X1X2 PCR product
 217 <300> PUBLICATION INFORMATION:
 218 <308> DATABASE ACCESSION NO: GenBank / NM_000510
 219 <309> DATABASE ENTRY DATE: 2002-11-05
 220 <313> RELEVANT RESIDUES: (1)..(390)
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    227 atcaacacca cttggtgtgc tggctactgc tacaccaggg atctggtgta taaggaccca
    229 gccaggcca aaatccagaa aacatgtacc ttcaaggaac tggtatatga aacagtgaga
                                                                               240
    231 gtgcccggct gtgctcacca tgcagattcc ttgtatacat acccagtggc cacccagtgt
                                                                               300
    233 cactgtggca agtgtgacag cgacagcact gattgtactg tgcgaggcct ggggcccagc
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    240 <212> TYPE: DNA
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     248 <400> SEQUENCE: 7
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     253 <211> LENGTH: 21
     254 <212> TYPE: DNA
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     265 <210> SEQ ID NO: 9
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     267 <212> TYPE: DNA
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     271 <223> OTHER INFORMATION: primer PFX2 n.t. position 199-219 in SEQ ID NO: 1, cDNA
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     274 <400> SEQUENCE: 9
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     287 <400> SEQUENCE: 10
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     294 <213> ORGANISM: Artificial Sequence
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Output Set: N:\CRF4\04202006\J561743.raw

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311 <400> SEQUENCE: 12
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318 <213 > ORGANISM: Homo sapiens
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340 <222> LOCATION: (1)..(704)
341 <223> OTHER INFORMATION: alpha-FSH (NM_000735) full length cDNA sequence
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348 atgcagetat etttetggte acattgtegg tgtttetgea tgtteteeat teegeteetg
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352 ccccaatact tcagtgcatg ggctgctgct tctctagagc atatcccact ccactaaggt
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354 ccaagaagac gatgttggtc caaaagaacg tcacctcaga gtccacttgc tgtgtagcta
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356 aatcatataa cagggtcaca gtaatggggg gtttcaaagt ggagaaccac acggcgtgcc
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360 tgctgatttt ctggaatgga aaattaagtt gtttagtgtt tatggctttg tgagataaaa
362 ctctcctttt ccttaccata ccactttgac acgcttcaag gatatactgc agctttactg
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364 cettectect tatectacag tacaateage agtetagtte titteatitg gaatgaatae
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372 <213> ORGANISM: Artificial Sequence
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374 <220> FEATURE:

VERIFICATION SUMMARY

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